

## WEST Search History

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DATE: Tuesday, June 29, 2004

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L1	(block\$ same (contaminat\$ or background) same (bead or CPG or core pore glass or glass bead or dipstick))	510
<input type="checkbox"/>	L2	(L1 same (nucleic acid or probe) same (captur\$ or tether\$))	4
<input type="checkbox"/>	L3	(L1 and (nucleic acid or probe) same (captur\$ or tether\$))	23
<input type="checkbox"/>	L4	(L1 same prevent\$)	138
<input type="checkbox"/>	L5	L4 same cross-contaminat\$	0
<input type="checkbox"/>	L6	L4 and cross-contaminat\$	0
<input type="checkbox"/>	L7	L4 same (nucleic acid or probe or oligonucleotide)	8
<input type="checkbox"/>	L8	L4 and ((nucleic acid or probe or oligonucleotide) same (captur\$ or tether\$))	9
<input type="checkbox"/>	L9	((teflon or kapton or delrin or silane) same (bead or dipstick or prong or core pore glass or glass bead or CPG))	4279
<input type="checkbox"/>	L10	L9 same (nucleic acid or probe or oligonucleotide)	349
<input type="checkbox"/>	L11	L9 same (nucleic acid or probe or oligonucleotide)	349
<input type="checkbox"/>	L12	L11 same (captur\$ or tether\$)	36
<input type="checkbox"/>	L13	(nonstick or non-stick) same (coat\$ or surfac\$)	6807
<input type="checkbox"/>	L14	L13 same l1	0
<input type="checkbox"/>	L15	L13 and l1	1
<input type="checkbox"/>	L16	L13 same (nucleic acid or probe or oligonucleotide)	58
<input type="checkbox"/>	L17	l16 and (bead or dipstick or prong or core pore glass or glass bead or CPG)	19
<input type="checkbox"/>	L18	l13 and l9	35
<input type="checkbox"/>	L19	l18 and (nucleic acid or probe or oligonucleotide)	1
<input type="checkbox"/>	L20	L10 and l13	0

END OF SEARCH HISTORY

=> d his

(FILE 'HOME' ENTERED AT 15:54:22 ON 29 JUN 2004)

FILE 'MEDLINE, BIOTECHDS, EMBASE, BIOSIS, SCISEARCH, CANCERLIT' ENTERED  
AT 15:54:33 ON 29 JUN 2004

L1 205917 S (BLOCK? OR PREVENT?) AND (CONTAMINAT? OR BACKGROUND)  
L2 235 S L1 AND (CPG OR CORE POR? GLASS OR GLASS BEAD# OR MAGNETIC BEA  
L3 29 S L2 AND (NUCLEIC ACID OR PROBE OR OLIGONUCLEOTIDE)  
L4 22 DUP REM L3 (7 DUPLICATES REMOVED)  
L5 1 S L1 AND (NONSTICK OR NON-STICK)  
L6 31769 S TEFLON OR SILANE OR KAPTON OR DELRIN  
L7 0 S L6 AND L2  
L8 176 S L6 AND L1  
L9 5 S L8 AND (NUCLEIC ACID OR PROBE OR OLIGONUCLEOTIDE)  
L10 154 S L6 AND (CPG OR CORE PORE GLASS OR GLASS BEAD# OR MAGNETIC BE  
L11 3 S L6 AND (DIPSTICK OR PRONG)

=>

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DOCUMENT-IDENTIFIER: US 5478527 A

TITLE: Highly reflective biogratings

File: USPT

Dec 26, 1995

Detailed Description Text (41):

FIG. 3 is a cross-sectional view of a dipstick having mounted thereon, a plurality of insoluble supports with non-light disturbing diffraction grating designs of binding reagents on the surfaces thereof. The dipstick body 32 has a plurality of insoluble support surfaces 34 having a diffraction grating design of binding reagent coated thereon such the biogratings shown in FIG. 1 made by the process shown in FIG. 2. The materials from which the dipstick 32 are made are preferably non-binding to minimize non-specific binding during the binding assay procedure. Suitable dipstick surface materials include polyolefins such as polyethylene and polypropylene, hydrophilic polysilicon and polysiloxane polymers, and the like. Also suitable are polymers which have been treated to render the surfaces non-binding to proteinaceous materials. The silanes can be applied to the silicon dioxide surface in a vapor phase, for example.

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DOCUMENT-IDENTIFIER: US 6468751 B1

TITLE: Method and apparatus for performing amplification of nucleic acid on supports

File: USPT

Oct 22, 2002

Brief Summary Text (7):

The term "support" refers to conventional supports such as beads, particles, dipsticks, fibers, filters, membranes and silane or silicate supports such as glass.

Brief Summary Text (27):

Preferably, the support is epoxy silane derivatized silica. Supports may be filters, fibers, membranes, beads, particles, dipsticks, sheets, rods and the like. Preferably, the support has a composition of plastic, such as nylon or latex for beads, particles, dipsticks and the like; or glass, in the form of glass fiber, glass sheets, beads, rods, dipsticks; or metal, in the form of magnetic particles and the like. A preferred support comprises a sheet which has surfaces with alignment features to allow the precise positioning of the second nucleic acid and third nucleic acids, to define areas of the support directed to a first pair of target sequences and other areas directed to a second pair of target sequences. These areas are preferably arranged in a grid type pattern of pixels.

Detailed Description Text (69):

Second and third nucleic acids having a sequence complementary to the first nucleic acids are immobilized on an epoxy silane derivatized dipstick substrate via a 5' amino group. Dipstick substrates can be composed of glass, plastic, or metals. The isolated sections along the derivatized substrate receive an increasing concentration of second and third nucleic acid per unit of surface area.